

## AIR TIGHT TOGGLE COSMETIC COMPACT

### FIELD OF THE INVENTION

[0001] This invention pertains to cosmetic compacts containing facial powders and the like

### BACKGROUND OF THE INVENTION

[0002] Known compacts are opened and closed manually and are not air tight whereby the contents can be attacked by moisture, mold or the like. The present invention employs a new and improved clasping mechanism that allows the compact to be opened and closed in such manner that whenever the compact is closed, an air tight seal is established. The seal is broken whenever the compact is opened and is recreated each time the compact is closed.

### SUMMARY OF THE INVENTION

[0003] It is well known that certain cosmetic compacts contain makeup products which dry up or evaporate over time when housed in a container that allows air to be exchanged between the inside and outside of the compact even though the compacts are closed.

[0004] It is a primary object of this invention to provide cosmetic compacts that maintain constant pressure when closed and restore the constant pressure when closed after opening whereby air cannot be exchanged between inside and outside when the compacts are closed.

[0005] In accordance with the present invention, an air tight cosmetic compact employs

a cover element that is the external upper part of the compact and a mating base element that is the external lower part of the compact. Means pivotally hinge one end of the base element to a mating end of the cover element, whereby when the compact is closed the base and cover elements are closed in mating engagement and when the compact is opened the cover element is pivotally separated from the base while remaining secured thereto;

**[0006]** A toggle lever is disposed at ends of the elements oppositely the mating ends thereof. The toggle lever is connected a selected one of the elements and is pivotally movable by manual action into and out of engagement with the other one of the elements. The lever, when the elements are so engaged, clamping the elements together at constant pressure with an air tight seal. When the elements are not so engaged, the lever pivotally separates the elements and destroys the seal, the seal being created at constant pressure every time the lever clamps the two elements together.

#### BRIEF DESCRIPTION OF THE DRAWINGS

**[0007]** In the drawings:

Figure 1 is a perspective view of a preferred embodiment of the invention.

Figure 2 is a plan view of this embodiment..

Figure 3 is an exploded view of this embodiment.

Figure 4 is a sectional view taken along line A-A in figure 2.

Figure 5 is a sectional view along line B-B in figure 2..

## DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

[0008] Referring now to figures 1-5, cover element 1 and base element 2, both of mating rectangular shape, are pinned together at one set of mating ends by hinge pins 7. Element 1 also houses bezel 3 which can be glued, snapped or welded into the cover for assembly. The bezel contains one of the two seal surfaces required to make the compact air tight and may also house a mirror if required.

Platform 4 is assembled into element 2 and houses the product pan 6. The pan can be snapped into glued or float freely in the platform 4. Platform 4 is used to provide mechanical means to snap the pan 6 in and allow it to float freely and not fall out of the compact if it is turned on end or upside down. The pan is the vessel that houses the product content of the compact and provides the second one of the two seal surfaces.

Toggle lever 5 has the shape of an L with first and second legs 10 and 12 disposed at right angles to each other. The lever is employed at the sides of the elements 1 and 2 opposite the pinned positions of elements 1 and 2. Element 1 has a recess 14 in its top surface. Element 2 has a recess 16 in its side surface. Leg 10 is pinned by pins 7 to element 2. Leg 12 engages the recess 14 when the lever is moved manually in clamping position and forces elements 1 and 2 together at constant pressure. Leg 10 is pivoted outward by manual action and leg 12 is spaced from the recess to open the compact.

Pins 7 are used not only to assemble the elements and the toggle lever but also provide the rotation points to allow the opening and closing of the compact.

The bezel can be removed and the required seal formed as part of the cover element 1. The bezel can be molded in a clear material that protrudes through the element 1 so that it becomes a lens that forms the required seal. The platform can be incorporated into

element 2 and produced as a single part. The positions of the recesses and toggle lever can be reversed so that the positions of elements 1 and 2 can be reversed.

While the invention has been described with particular reference to preferred embodiments and the drawings, the protection is to be limited only by the terms of the claims that follow.